# Third Year B. Tech (EL & CE)

**Semester: VI Subject:** Data Science for Engineering

**Name: Shreerang Mhatre Class: TY**

**Roll No: 52 Batch: A2**

# Experiment No: 01

**Name of the Experiment**: **Data Science Fundamentals**

**Performed on: 15/1/2024**

**Submitted on: 15/1/2024**

**Problem Statement:**

**Question no 1 -**   
Write a python program to create a dictionary which contains students name and marks. iterate over the dictionary and apply below conditions to print their grades for 5 subjects

a) Marks greater than or equal to 70 - Distinction

b) Marks between 60 - 90 - First Class

c) Marls between 50 - 59 - Second Class

d) Marks between 40 - 49 - Pass

e) Marks less than 40 - fail

**Question no 2 -**   
Write a python program to create a ID array of numbers from 0 to 9

**Question no 3 -**   
Write a Numpy Python Program to create an array of all even integers from 30 to 70

**Question no 4 -**   
Write a Numpy program to create a 3x4 matrix filled with values from 10 to 21

**Question no 5 -**   
Write a Numpy program to compute the sum of all elements, sum of each column and sum of each row of a given array.  
  
  
  
  
  
  
  
  
  












